

SP201™ Signaling Gateway

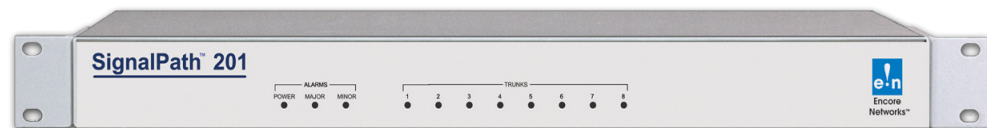
An advanced signaling protocol converter designed to facilitate interoperability between incompatible communication networks.

The SignalPath™ 201 (SP201) is an advanced signaling protocol converter designed to facilitate interoperability between incompatible communication networks. The SP201 enables a seamless interface between in-band and out-of-band networks, and between out-of-band networks and other out-of-band networks.

Different types of communication protocols, both in-band and out-of-band, exist globally. One country could have up to six or seven different protocols simultaneously in use within its networks. The SP201 breaks down the communication barriers presented by these different protocols and enables the flow of information across any network.

Not only can you increase your potential to connect to a larger portion of the world market, but you can also eliminate charges you may be currently paying to one or more companies for network connections. This means more revenue in your corporate pocket.

SP201 Signaling Gateway



EXTENSIVE PROTOCOL SUPPORT

The following protocols are available, as well as a wide variety of custom variants:

- ▶ R1, R2, DTMF
- ▶ SS7 (ANSI), C7 (ITU-T)
- ▶ ETSI PRI ISDN, NI2 ISDN
- ▶ Custom protocol variants

SUPERIOR MAINTENANCE AND DIAGNOSTICS

- ▶ Multiple maintenance features enable quick and cost-effective resolution of network problems.
- ▶ Trace functionality is available to aid in trouble-shooting configuration and network problems.
- ▶ Visual and dry contact alarms allow for remote and local monitoring.

COMPACT CHASSIS DESIGN

- ▶ The SP201 features a compact 1U height designed for budgeted space, with a capacity of up to 4 E1 or T1 trunks for the customer with low-end requirements.
- ▶ Chassis-based, the SP201 is designed specifically for today's high standards in the communications environment.

OTHER PRODUCT FEATURES

- ▶ Standard connections (RJ48, BNC)
- ▶ Up to 4 E1 or T1 trunks (full duplex, 8 ports)
- ▶ Up to 120 DS0s per chassis
- ▶ Dynamic bi-directional μ -Law/A-Law T1/E1 c

TECHNICAL SPECIFICATIONS

STANDARDS CONFORMANCE

R1	Q.310–Q.331
R2	Q.400–Q.490
DTMF	BellCore TR-TSV-002275, Subsection 6.13
SS7	BellCore TR-NWT-00246, ANSI T1.111a, T1.112, T1.113a, T1.114, T1.116, T1.234–T1.236
C7	ITU-T White Book: Q.767, Q.701– Q.704, Q.705, Q.708, Q.709, Q.780– Q.782, Q.784, Q.788
ETSI ISDN	ETSI 300-102, Q.931, Q.921
NI2 ISDN	BellCore TR-NWT-001268, TR-NWT-002343; Q.931, Q.921

AGENCY COMPLIANCE

Safety:	EN 60950, European Safety (CE Mark) UL 1950 3rd Edition, U.S. Safety
Emissions:	EN 55022, Class A FCC Part 15, Sub-part B, Class A
Immunity:	EN55024: 1998
Belcore Emissions & Immunity:	GR-1089-CORE, Section 3

HARDWARE SPECIFICATIONS

Height:	1.75 in. (4.45 cm)
Width:	19 in. (48.26 cm)
Depth:	10 in. (25.4 cm)
Power:	42 to -56 VDC 100 to 240 VAC, 50 to 60 Hz
Temperature:	32° to 122° F (0° to 50° C)
Humidity:	Up to 95% non-condensing
Altitude:	Up to 10,000 ft. (3,048 m)

SYSTEM CAPACITY

Aggregate Cards:	One per chassis
Interfaces:	Up to 4 E1 or T1 trunks (or 8 full duplex trunks) per chassis
Channels:	Up to 31 per trunk; up to 248 per chassis
SS7/C7:	Four per chassis
Destination Point Codes:	One per trunk. Up to 4 per chassis

INTERFACE SPECIFICATIONS

Framing:	E1: G.732 or G.706 T1: D4SF or D4ESF
Bit Rate:	E1: 2,048 Mbps T1: 1.544 Mbps
Clocking:	E1: ± 30 ppm internal E1: ± 100 ppm external T1: ± 30 ppm internal T1: ± 150 ppm external
Impedance:	E1: 120 ohm balanced E1: 75 ohm unbalanced T1: 100 ohm balanced
Coding:	E1: AMI or HDB3 T1: AMI or B8ZS
Alarms:	E1: Loss of carrier signal, multi-frame carrier signal, sync; alarm indication signal (AIS); receipt of remote alarm; receipt of multi-frame remote alarm T1: Loss of carrier signal; loss of frame; receipt of alarm indication signal (AIS); receipt of remote alarm
Diagnostics:	E1/T1: signaling state report, digit report
Performance:	E1: G.703, G.706, G.732, G.823 T1: ATT Pub. 62411



Specifications are subject to change without notice

